

AMENDMENTS TO THE CLAIMS

1. (Canceled)
2. (Currently amended) A method according to claim ~~4~~6 in which the common control channel is one of a broadcast channel or a forward access channel or a paging channel.
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Currently amended) ~~A method according to claim 5~~ In a code division multiple access mobile radio channel communications network, a method of providing pilot symbols comprises: providing a first set of pilot symbols through a plurality of dedicated pilot channels, each dedicated pilot channel being dedicated to one mobile user; simultaneously providing a second set of pilot symbols through at least one common control channel, said common control channel also carrying data symbols in addition to said second set of pilot symbols; and in a mobile combining the first and second sets of pilot symbols and from said

combination estimating the channel impulse response;  
and further comprising transmitting from a mobile to a  
network base station information relating to quality  
of received pilot symbols, the base station then  
varying the energy associated with the first set of  
pilot symbols supplied to that mobile, and further  
comprising the step of varying time offsets between  
pilot symbols on the dedicated pilot channel and pilot  
symbols on the at least one common channel.

7. (Canceled)

8. (Canceled)

9. (Currently amended) A code division multiple access  
mobile radio telecommunications network comprising a  
plurality of mobiles each having a dedicated pilot  
channel; a plurality of base stations; first pilot  
symbol generation means arranged to supply pilot  
symbols to the dedicated pilot channels; second pilot  
symbol generation means arranged to supply to at least  
one common control channel dedicated pilot symbols  
embedded between data symbols broadcast by the common  
control channel; and in each mobile, receiving means  
arranged to receive pilot symbols in the dedicated  
pilot channel and the common control channel,

combining means to combine the received pilot symbols,  
channel estimation means to receive the combined pilot  
symbols, and coherent detection means arranged to vary  
at least one property of the mobile in accordance with  
the output of the channel estimation means, and in  
which each mobile is arranged to send to an associated  
base station information relating to the quality of  
pilot symbols received on its dedicated pilot channel,  
and each base station is arranged to vary the energy  
of said pilot symbols accordingly and ~~A network~~  
~~according to claim 8~~ in which each mobile is further  
arranged to send to an associated base station  
information relating to the quality of pilot symbols  
received on the at least one common channel, and each  
base station is arranged to vary the timing of the  
pilot symbols in the common control channel with  
respect to the pilot symbols in the dedicated pilot  
channel.

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Canceled)

15. (Currently amended) In a code division multiple access mobile radio channel communications network, a method of providing pilot symbols comprises: providing a first set of pilot symbols through a plurality of dedicated pilot channels, each dedicated pilot channel being dedicated to one mobile user; simultaneously providing a second set of pilot symbols through at least one common control channel, said common control channel also carrying data symbols in addition to said second set of pilot symbols; and in a mobile combining the first and second sets of pilot symbols and from said combination estimating the channel impulse response(Previously presented), in which the common control channel is one of a broadcast channel or a forward access channel or a paging channel, and further comprising transmitting from a mobile to a network base station information relating to quality of received pilot symbols, the base station then varying the energy associated with the first set of pilot symbols supplied to that mobile, and A method according to claim 14 further comprising the step of varying the time offsets between pilot symbols on the

dedicated pilot channel and pilot symbols on the at  
least one common channel

16. (Canceled).

17. (Canceled).

18. (Canceled).

19. (Canceled).